ANALYTIC SUBJECT INDEX

Activation energy 300
Alloys 387
Al–Zn alloys 397
Amorphous alloy Fe–Co–Si–B 367
Amorphous magnetism 373
Amplitudon 283
Anharmonic hydrogen potential 131
Anharmonicity 286, 314
Anilinium bromide 300
Antiferromagnets 167, 207, 241
Antiferromagnetism 143, 212

Bhatia–Thornton neutron total structure factor 342
Binary alloys 392
Born–von Kármán model 305
Bovine α-lactalbumin 444

Capture gamma ray 126
C.D.W. 263
Central peak 190
Cerium monophictides 163
Chemical short-range structure 352
Coexistence 224
Coherence length 81
Compensation point 413
Competing ordering 207
Concentration correlation function 352
Configuration 408
Contrast variation 426, 436
Convection 376
Correlating spectrometry 37
Coupled quadrupole–phonon excitations 310
Critical phenomena 202
Critical scattering 291
Crystal analyzer TOF spectrometer 131
Crystal growth history 66
$CsFeCl_3$ 190
Cu–5% Ge 96
Cu–14% Ni 96

D–D correlation 342
Decomposition 387
Decomposition in alloys 397
Decomposition kinetics 392
Defect clusters 357
Defect structure 357
Deporalization of transmittance 45
Dilute 183
Discommensurations 256
Displacive transition 263
DNA 436
Double-diffusive 376
Dynamics 241
Dynamical diffraction 71

Einstein oscillation 305
Elastic incoherent structure factor 422
Electrolyte solution 325
Elementary excitation 296
Epithermal neutron excitations 3
Equeous 325
eV neutron spectrometer 126
Exchange interaction 220
Excitations 373

Fe–Cr 392
$FePt_3$ 317
Fe_3Pt 317
Ferroelectricity 267
Ferroelastic transition 270
Ferromagnetism 224
Fiber optic encoding 104
Fluorites 357
Focusing 71
Folding–unfolding 444
Frank–Wen model 325
Frustration 187
Fe–Cr alloys 383

γ-Mn 167
γ-Mn alloy 156
Glass scintillators 104
Graphite intercalation compound 305
Gravity fall 118

Heavy–light rare earth alloys 220
High Q neutron scattering 126
High energy transfer incoherent neutron scattering 131
High resolution 51, 61, 108, 118
High resolution neutron spectrometer 131
High oxydation states 227
Hindered rotation 300
Histone 436
Hydrogen bond 25

Impurity 241
Incommensurate 283
Incommensurate phases 256, 280, 291
Inelastic neutron scattering 51, 136, 310
Intermediate-angle neutron scattering 408
Invar alloy 317
Iron IV and V 227
Iron group relaxation 159
Ising antiferromagnets 180
Isotope effect 270
Isotopic substitution 325
Itinerant electrons antiferromagnetism 143

KDP 267

Lattice dynamics 314
Laves phase 212
Layer-type compounds 202
Lead glasses 362
Linear chain model 305
Line width 176
Lipid bilayer 440
Local coordination around a Ge atom 347
Local environments around a hydrogen atom 342
Local hydrogen atom vibration spectrum 342
Local modes of metal hydrides 131
Low dimensional system 187
Low-Q scattering 122

Magnetic excitations 152, 163, 183, 193, 367
Magnetic short-range order 173
Magnetic structures 220
Magnetic superconductors 197
Magnon 136, 167
Mean kinetic energy 126
Metal hydrides 25
Mictomagnetism 147
Mirrors 81
Miscibility of lipids 440
Mn–Fe 156
Molecular crystal 314
Monochromators 86
Mössbauer study 207

Na_2O-GeO_2 glasses 347
$\{N(CD_3)_4\}_2ZnCl_4$ 291
Neutron diffraction topography 96
Neutron focussing 118
Neutron interferometry 71
Neutron magnetic resonance 71
Neutron position sensitive detectors 104
Ni–Ti alloy glasses 352
$NiTi_2H(D)_x$ glass hydride 342
NMR 212
Nonequilibrium 3
Nucleosome core 436

One-dimensional antiferromagnet 183
1-D ferromagnet 250
One-dimensional magnets 235
Order–disorder 170

Paramagnetism 159
Phase separation 397, 440
Phase transition 202, 291, 392
Phason 283
Phonons 286, 317, 401
Phonon dispersion relations 305
Planar magnets 190
Polarization 81
Polarization analysis 45
Polarized beam 108
Polarized neutrons 45, 51, 61, 86, 114, 367, 373
Polarized neutrons – paramagnetic form factor of rhodium 216
Polyisobutylene 408
Polymer solutions 418
Precipitates 387
Precipitation during ageing 91
Primitive model 325
Proton tunneling mode 270
Pulsed cold neutrons 45
Pulsed cold neutron source 422
Pulsed neutrons 15, 114, 136
Pulsed neutron source 25
Pulsed neutron total scattering 347, 352
Pulsed reactor 37
Pulsed spallation source 3

Quasielastic neutron scattering 444
Quasielastic scattering 300, 325, 422
Quartz 280

Radius of gyration 426
Random antiferromagnet 193
Random coil polymer model 418
Random field effects 180
Random mixture 207
Rare-earth metals 152
Rare-earth metallic compounds 176, 310
Reconstitution 426
Relaxation effects 159
Resonance detector 126
Rubber polymer 422

Scattering 147
Semi-dilute polymer solution 413
Single crystals 220
Si-mirror substrate 81
Singlet ground state 190
Small-angle camera 122
Small-angle neutron scattering 37, 91, 383, 408, 413, 436
Small-angle scattering 122, 387, 418
Soft mode 190
Solitons 235, 241, 250
Specific deuteration 426
Spin modulation 61
Spin-glass 147
Spinodal decomposition 383, 397
Spin wave 156, 170, 173
Spin waves antiferromagnet 143
Spontaneous magnetization mapping 66
Structural phase transformations 256
Structure 335
Structure factor 296
Structure of water 25
Structural transition 275
Substructure 96
Superconducting composite wires 91
Superconductivity 224, 275
Susceptibility 224
Synchrotron radiation 37
Synthesis of deuterized lipid 440

θ temperature 413
Time-of-flight 114
Time-of-flight diffractometry 37
Time of flight spectrometer 45
Toda lattice 286
TOF spectrometer 3
TOF technique 104
Transition metal compounds 143
Tungsten bronze 275

Ultra-cold neutrons 114, 275
Uniaxial stress 152, 401
Uranium 263

VSAS 362

Water 25, 335, 422
Warren chemical short-range order parameter 352
White polarized neutron 3
Wide band neutron chopper 91

X-ray 335
X-ray and neutron small-angle scattering 444
X-ray scattering 108, 267

YMn_2 212
Yttrium iron gallium garnet 66